



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,014	09/27/2001	Wayne Elmo Vicknair	AUS920010548US1	2757
35525 7590 01/26/2007 IBM CORP (YA) C/O YEE & ASSOCIATES PC P.O. BOX 802333 DALLAS, TX 75380			EXAMINER AILES, BENJAMIN A	
			ART UNIT 2142	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE 3 MONTHS			MAIL DATE 01/26/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/965,014

Applicant(s)

VICKNAIR ET AL.

Examiner

Benjamin A. Ailes

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-10,12-18 and 20-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-10,12-18 and 20-29 is/are rejected:
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to correspondence filed 02 November 2006.
2. Claims 1-2, 4-10, 12-18 and 20-29 remain pending.

Response to Amendment

3. Applicants' amendment to the specification on page 5 has been acknowledged and the prior objection has been withdrawn.

Response to Arguments

4. Applicant's arguments with respect to claims 1-2, 4-10, 12-18 and 20-29 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2142

7. Claims 1-2, 4-6, 9, 10, 12-24, 17, 18, 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brook (US 2002/0038320), in view of Call (US 2002/0143521).]

8. Regarding claim 1, Brook teaches a method for "retrieving a data value from a character stream" by processing a text stream and obtaining information for each character in the data (text) stream (p. 9, para. 227, lines 1-5 and 231, lines 1-4). Brook teaches on performing a validity test on each character in the stream but does not clearly recite the explicit use of a data structure to store the characters by location (i.e. an array). However, in related art, Call teaches on this aspect. Call teaches the use of a data structure, an array, to store and index using integer values of character data (p. 2, para. 0016). One of ordinary skill in the art at the time of the applicant's invention would have found it obvious to utilize a data structure like an array to index character values as demonstrated by Call in combination with the character validation method taught and suggested by Brook. One of ordinary skill in the art would have been motivated to utilize a data structure like an array to promote easy organization and efficient execution of processing functions by way of easy indexing of character values (see Call, p. 2, para. 0016). Brook teaches the use of the computer language XML (p. 9, para. 227)

9. Regarding claim 2, the same rationale as utilized in the rejection of claim 1 applies equally as well to claim 2, wherein Brook teaches on performing a validity test on each character in the stream but does not clearly recite the explicit use of a data structure to store the characters. However, in related art, Call teaches on this aspect.

Art Unit: 2142

Call teaches the use of a data structure, an array, to store and index using integer values of character data (p. 2, para. 0016). One of ordinary skill in the art at the time of the applicant's invention would have found it obvious to utilize a data structure like an array to index character values as demonstrated by Call in combination with the character validation method taught and suggested by Brook. One of ordinary skill in the art would have been motivated to utilize a data structure like an array to promote easy organization and efficient execution of processing functions by way of easy indexing of character values (see Call, p. 2, para. 0016).

10. Regarding claim 4, Brook and Call teach on the aspect of wherein if the logical corresponds to a logically "TRUE" value, said data value represents a valid character (Brook, p. 10, para. 237, comparison against schema).

11. Regarding claim 5, Brook and Call teach on the aspect of further comprising if each character in said character stream is valid, applying a predetermined set of syntactic rules to byte patterns comprising said character stream (Brook, para. 237, ll. 6-15).

12. Regarding claim 6, Brook and Call teach on this aspect in view of the above rejection of claims 1 and 2 wherein Call teaches the use of the data structure being an array (see Call, p. 2, para. 0016).

13. Claims 9, 10 and 12-14 contain similar subject matter and are rejected under the same rationale as claims 1, 2 and 4-6, respectively.

14. Claims 17, 18 and 20-22 contain similar subject matter and are rejected under the same rationale as claims 1, 2 and 4-6, respectively.

15. Claims 7-8, 15-16 and 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brook and Call in view of Zhao et al. (US 2002/0042707 A1), hereinafter referred to as Zhao.

16. Regarding claims 7 and 8, Brook teaches the use of a wide range of fonts and styles but does not explicitly disclose the use of extensible markup language (XML) syntax. However Zhao teaches the analysis and format determination of extensible markup language (XML) (see fig. 6, grammar packaging). At the time of the applicant's invention, it would have been obvious to one of ordinary skill in the art to modify Brook's method to allow it to process XML documents as input, as taught by Zhao. It logically follows that the rules employed by Brook's character validation would be in accordance with extensible markup language (XML) also. The motivation for doing so would have been to be able to determine whether extensible markup language (XML) packets match the extensible markup language (XML) protocol definition at an increased speed over prior methods. Therefore it would have been obvious to combine Brook, Call and Zhao for the benefit of increased processing speed to obtain the invention as specified in claims 7-8.

17. Claims 15 and 16 contain similar subject matter and are rejected under the same rationale as claims 7 and 8.

18. Claims 23 and 24 contain similar subject matter and are rejected under the same rationale as claims 7 and 8.

19. Claim 25 contain similar subject matter and are rejected under the same rationale as applied to claims 1, 5, 7, and 8.

20. Claims 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brook, Call and Zhao in view of Jurion et al. (US 6,631,501 B1), hereinafter referred to as Jurion.

21. Regarding claims 26-29, the combination of Brook, Call and Zhao as outlined in the above rejections teaches upon the aspects of character stream parsing and performing validity tests upon the parsed characters but does not clearly teach upon the aspect wherein the parsed characters are tested to be "base" characters, "digit" characters and "extender" characters. While Brook, Call and Zhao do teach upon the usage of characters in general, nothing is explicitly recited to classify these characters into general groups (i.e. base, digit and extender). However, in related art, Jurion teaches the automatic and replacement of characters wherein characters are tested on their validity within a group or string of characters to determine whether a character within the string is appropriate, or valid. Jurion teaches that the characters analyzed can be of a plurality of different types of characters which would implicitly include "base" characters, "digit" characters, and "extender" characters as claimed by applicant and therefore one of ordinary skill in the art at the time of the applicant's invention would have found it obvious to test the validity of characters utilizing aspects taught by Jurion, specifically the use of base, digit, and extender characters (col. 3, lines 8-18). One of ordinary skill in the art would have been motivated to utilize the teachings of Jurion in combination with the teachings of Brook, Call, and Zhao in order to check the syntactical rules of character streams correctly and efficiently as provided by Jurion as a necessary need in the art of simple character validation (see Jurion, col. 2, ll. 41-52).

Conclusion

22. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hsu et al. (US 7,120,642 B2) teaches automatic validation method for multimedia product manuals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A. Ailes whose telephone number is (571)272-3899. The examiner can normally be reached on M-F 6:30-4, IFP Work Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571)272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER